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TITLE: HOT ROLLED HIGH STRENGTH STEEL SHEET SMALL IN VARIATION OF MATERIAL AND EXCELLENT IN WORKABILITY AND ITS PRODUCTION

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ABSTRACT:

PROBLEM TO BE SOLVED: To produce a hot rolled high strength steel sheet small in the variation of the material and to provide a method for producing it.

SOLUTION: This steel sheet has a compsn. contg., as chemical components, by weight, 0.15 to 0.3% C, 0.5 to 3.0% Si, 0.5 to 3.0% Mn, iÜ0.1% P, iÜ0.05% S, iÜ0.1% Al and iÜ0.1% N, in which the content of B as impurities is limited to iÜ0.0005%, and the balance Fe with inevitable impurities and a structure composed of ferrite in which the ratio between the occupying volume rate VPF (%) of polygonal ferrite and the average grain diameter dPF (µm) of polygonal ferrite, i.e., VPF/dPF is iÝ7 and also contg. retained austenite of iÝ5% by volume ratio, bainite and retained austenite as microstructures, in which, as characteristics, the balance of strength-ductility, i.e., TSiÁT. El is iÝ20,000 (MPa.%), and also, its variation in a coil is <3,000 (MPa.%).

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